

10-08-02 #9 0300

Express Mail No.: EL 401280492 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Seq

Application of: Chae, Young-Jin

Confirmation No.: 8647

Application No.: 10/071,476

Group Art Unit: Not Yet Assigned

Filed: February 8, 2002

Examiner: Not Yet Assigned

For: PEPTIDE VECTOR

Attorney Docket No.: 10933-017

TRANSMITTAL OF SEQUENCE LISTING UNDER 37 C.F.R. § 1.821

U.S. Patent and Trademark Office
Box Sequence, P.O. Box 2327
Arlington, Virginia 22202

Sir:

In response to the Notice to Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures ("the Notice") mailed September 20, 2002, a copy of which is enclosed, and in accordance with 37 C.F.R. § 1.821, Applicant submits herewith, in connection with the above-identified patent application, a Sequence Listing in paper and computer readable form pursuant to 37 C.F.R. §§ 1.821(c) and (e).

I hereby state that the content of the paper and computer readable copies of the Substitute Sequence Listing, submitted in accordance with 37 C.F.R. §§ 1.821(c) and (e), respectively, are the same. I hereby state that the submission herein under 37 C.F. R. § 1.821(g) does not include new matter.

Respectfully submitted,

Date October 4, 2002

Yeahsil Moon
for Anthony M. Insogna

52,042
(Reg. No.)
(Reg. No. 35,203)

PENNIE & EDMONDS LLP
1155 Avenue of the Americas
New York, N.Y. 10036-2711
(212) 790-9090



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/071,476	02/08/2002	Young-Jin Chae	10933-017

20583
PENNIE AND EDMONDS
1155 AVENUE OF THE AMERICAS
NEW YORK, NY 100362711



CONFIRMATION NO. 8647
FORMALITIES LETTER



Date Mailed: 09/20/2002

Seq. listing due 11/20/02

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY

REFERRED TO <i>Yeeh-Sil Moon</i> REC'D
SEP 24 2002
Pennie & Edmonds O.K. for filing _____

1725



UNITED STATES PATENT AND TRADEMARK OFFICE

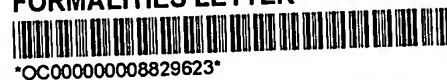
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10/071,476	02/08/2002	Young-Jin Chae	10933-017

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PENNIE AND EDMONDS
1155 AVENUE OF THE AMERICAS
NEW YORK, NY 100362711



CONFIRMATION NO. 8647
FORMALITIES LETTER



OC000000008829623

Date Mailed: 09/20/2002

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

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- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

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- For Rules Interpretation, call (703) 308-4216
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- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center

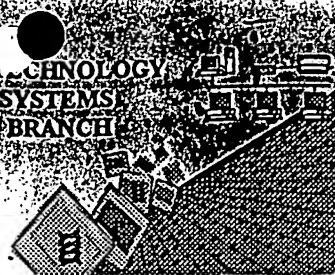
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



RAW SEQUENCE LISTING **ERROR REPORT**

BIOLOGY
SYSTEMS
BRANCH



0570
09/3

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/071,476A
Source: OIPE
Date Processed by STIC: 9-10-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



Does Not Comply
Corrected Diskette Needed



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/071,476A

DATE: 09/10/2002
TIME: 14:46:42

Input Set : A:\10933017999.txt
Output Set: N:\CRF4\09102002\J071476A.raw

3 <110> APPLICANT: Chae, Young-Jin
5 <120> TITLE OF INVENTION: Peptide Vector
7 <130> FILE REFERENCE: 10933-017-999
9 <140> CURRENT APPLICATION NUMBER: 10/071,476A
C--> 10 <141> CURRENT FILING DATE: 2002-09-04
12 <150> PRIOR APPLICATION NUMBER: KR 2001-6587
13 <151> PRIOR FILING DATE: 2001-02-10
15 <160> NUMBER OF SEQ ID NOS: 5
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 16
21 <212> TYPE: PRT
C--> 22 <213> ORGANISM: Artificial
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Leader
27 <220> FEATURE:
28 <223> OTHER INFORMATION: N-terminal Gly is acetylated
30 <220> FEATURE:
31 <221> NAME/KEY: SITE
32 <222> LOCATION: 2, 4
33 <223> OTHER INFORMATION: Xaa = Leu or Ile
35 <220> FEATURE:
36 <221> NAME/KEY: SITE
37 <222> LOCATION: 10, 11
38 <223> OTHER INFORMATION: Xaa = Arg or Lys
41 <220> FEATURE:
42 <221> NAME/KEY: SITE
43 <222> LOCATION: 2, 4
44 <223> OTHER INFORMATION: Xaa = Gly, Leu, Ile, Arg, Gln, Asn, Ser
46 <400> SEQUENCE: 1
W--> 48 Gly Xaa Gly Xaa Ser Tyr Gly Arg Lys Xaa Xaa Arg Xaa Arg Arg Cys
49 1 5 10 15
52 <210> SEQ ID NO: 2
53 <211> LENGTH: 17
54 <212> TYPE: DNA
C--> 55 <213> ORGANISM: Artificial
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Linker DNA: 5' end of C forms ester bond with Cys
63 <400> SEQUENCE: 2
64 ctaatacgac tcactat
67 <210> SEQ ID NO: 3

Source of genetic information must be explained in <223>

ALL Xaa's must be included in feature <220> - <223>

17

RAW SEQUENCE LISTING

DATE: 09/10/2002

PATENT APPLICATION: US/10/071,476A

TIME: 14:46:42

Input Set : A:\10933017999.txt

Output Set: N:\CRF4\09102002\J071476A.raw

68 <211> LENGTH: 16

69 <212> TYPE: DNA

C--> 70 <213> ORGANISM: Artificial

72 <220> FEATURE:

73 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker

75 <400> SEQUENCE: 3

76 tagtgagtcg tatttag

16

79 <210> SEQ ID NO: 4

80 <211> LENGTH: 20

81 <212> TYPE: DNA

C--> 82 <213> ORGANISM: Artificial

84 <220> FEATURE:

85 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

87 <400> SEQUENCE: 4

88 tgaaggtgat gcaacatacg

20

91 <210> SEQ ID NO: 5

92 <211> LENGTH: 20

93 <212> TYPE: DNA

C--> 94 <213> ORGANISM: Artificial

96 <220> FEATURE:

97 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

99 <400> SEQUENCE: 5

100 gtcttgtagt tcccgtcatc

20

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/071,476A

DATE: 09/10/2002
TIME: 14:46:43

Input Set : A:\10933017999.txt
Output Set: N:\CRF4\09102002\J071476A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,4,10,11,13

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5

VERIFICATION SUMMARY

DATE: 09/10/2002

PATENT APPLICATION: US/10/071,476A

TIME: 14:46:43

Input Set : A:\10933017999.txt

Output Set: N:\CRF4\09102002\J071476A.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:22 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1

L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:55 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2

L:70 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3

L:82 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4

L:94 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5